

### **AMENDMENTS TO THE SPECIFICATION**

*Please replace the paragraph beginning on p. 6, line 13 with the following paragraph:*

~~Fig. 4~~ Figs. 4A-4F is an example screen display of multiple scatterplots illustrating the display linking feature of the present invention;

*Please replace the paragraph beginning on p. 7, line 14 with the following paragraph:*

~~Fig. 20 is an~~ Figs. 20A-20C are example screen display ~~displays~~ illustrating the multi-attribute display feature of the present invention;

*Please replace the paragraph beginning on p. 11, line 1 with the following paragraph:*

Referring to ~~Fig. 4~~ Figs. 4A-4F, a series of example screen displays of scatterplots illustrating the display linking feature of the present invention is shown. When the total number of criteria is small, as in the experiments in the HEV domain, users may view all of the trade-off diagrams in one screen, as ~~shown in Fig. 4~~ shown in Figs. 4A-4F. Otherwise, they may use their domain knowledge to identify axes with potentially interesting trade-off possibilities. ~~in Fig. 4~~ The six trade-off diagrams are of Figs. 4A-4F ~~may be~~ shown in one screen. The four criteria of interest in this domain are city miles per gallon, highway miles per gallon, top speed (in MPH), and time (in seconds) to reach 60 MPH (a measure of the acceleration capability).

*Please replace the paragraph beginning on p. 11, line 19 with the following paragraph:*

In accordance with an embodiment of the present invention, selections made in one trade-off plot are instantly reflected in all the plots. ~~Fig. 4 displays Figs. 4A-4F~~ display the six trade-off plots, with the results of the narrowing action by the user as depicted in Fig. 3 instantly translated into all the plots of the screen displays. The Viewer automatically rescales the dimensions so that the remaining candidates occupy the full area available, providing a zooming effect. The user may see how the survivors of a selection perform. If the results are unsatisfactory, the user may retract the selection.

*Please replace the paragraph beginning on p. 47, line 13 with the following paragraph:*

~~Referring to Fig. 20~~ Figs. 20A-20C, ~~an example screen display displays~~ illustrating the multi-attribute display feature of the present invention ~~is are~~ shown. The ~~example display showed~~ displays show the distribution of candidates, as one-dimensional scatterplots, according to 28 criteria that were used in the design of high-performance gear trains. The user may select candidates with respect to any one of the criteria and see instantly how they fare with respect to the other criteria. The user may perform intersections of different selections using different criteria. In comparison to two-dimensional scatterplots, there is some loss in the capability to directly observe trade-offs, but the ability to change the selection in one criterion and see how the values

change along another criterion gives some ability to infer trade-off possibilities. This screen display may be combined with, and linked to, trade-off plots of selected criteria.